IN THE CLAIMS

Please cancel claims 6-15 without prejudice or disclaimer.

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 (original) A method for processing packets of data comprising the steps of:

receiving a packet of data;

storing a payload of said packet of data in a buffer;

reading a header of said packet of data to extract a value;

indexing in a table storing a list of transport control blocks using said value;

performing a lock operation on a transport control block in an indexed entry in said table;

performing a read operation on said transport control block;

transmitting a notification to an application to read said payload, wherein said notification comprises an address of said transport control block; and

transmitting said payload of said received packet of data to said application whereby said application does not perform a lock, read, write or unlock operation on said transport control block.

Claim 2 (original) The method as recited in claim 1 further comprising the step of:

receiving an invocation of a function call from said application upon said application receiving said notification to read said payload.

Claim 3 (original) The method as recited in claim 1 further comprising the steps of:

performing a write operation on said transport control block;

performing an unlock operation on said transport control block; and

transmitting an acknowledgment to a transmitting network device.

Claim 4 (original) The method as recited in claim 3 further comprising the step of:

transmitting an indication of a change in a size of said buffer to said transmitting network device.

Claim 5 (original) The method as recited in claim 1 further comprising the step of:
transmitting said received payload to a processor to be processed.

Claims 6-15 (cancelled)